

ELECTRICAL QUANTITIES

QUANTITY	SYMBOL	UNIT	UNIT ABBREVIATION
Time	t	second	s
Frequency	f	hertz	Hz
Radian frequency	ω	radian/sec	rad/s
Phase angle	θ, ϕ	degree or radian	$^{\circ}$ or rad
Energy	w	joule	J
Power	p	watt	W
Charge	q	coulomb	C
Current	i	ampere	A
Electric field	ϵ	volt/meter	V/m
Voltage	v	volt	V
Impedance	Z	ohm	Ω
Admittance	Y	siemen	S
Resistance	R	ohm	Ω
Conductance	G	siemen	S
Reactance	X	ohm	Ω
Suspectance	B	siemen	S
Inductance, self	L	henry	H
Inductance, mutual	M	henry	H
Capacitance	C	farad	F
Magnetic flux	ϕ	weber	wb
Flux linkages	λ	weber-turns	wb-t
Power ratio	$\log_{10}(P1/P2)$	Bel	B